US Army Corps of Engineers BUILDING STRONG®	**Oversight Summary**	**Site Name/Location**	**Pohatcong OU-3 New Jersey**

Oversight Personnel	Role	Agency	Hours Onsite	Date/Weather
Samantha See	Field Oversight	USACE - NWK	13:50-15:30; 16:30-21:40	22 November 2019

Main PRP Personnel Onsite	Site Name/Address	Brief SOW
Brad Gibson & Luis Hidalgo-RioTinto Mike Eddings, Doug Burge, Nita Shinn, Jay Shipley, Adrian, Scott Tarmann,-Ramboll Scott, Chris, Brandon, Kevin, Jeff, Greg-TRS Ryan, David, Blake, Robert-GSE Cary Ellison-Summit	191 New Jersey 31 Washington, NJ	Attach scrubber & exhaust pipe and monitor air quality at exhaust pipe connections.

Work Observed/Completed By PRP:

14:00 Shift change safety meeting with Ramboll, TRS, and GSE. Due to issues with the exhaust pipe not having a high enough temperature rating, the 4" flexible metal exhaust pipe will be switched out for two different types of pipe, both 6" diameter: SS flexible (corrugated) hose rated for 800 degrees F and straight pipe rated up to 1100 degrees F. The exhaust pipe diameter was switched from 4" to 6" in order to avoid back pressure and overheating. A scrubber will be connected to the effluent directly before connection to the exhaust pipe. The ID of the scrubber and the ID of the exhaust pipe are exactly the same - Drillers left to find a piece to connect the two.

15:30 - 16:30 Break for lunch. Scrubber is connected to exhaust and new PID delivered prior to leaving.

16:30 Ramboll set up their Multi-Rae and Area-Rae air monitoring equipment inside the molding room to monitor air quality (PID and 5-gas). PID calibrated for NO2 by Ramboll.

17:00 Begin installation of exhaust pipe, connecting both flexible & straight pieces and covering connection clasps with appropriate temperature rated tape.

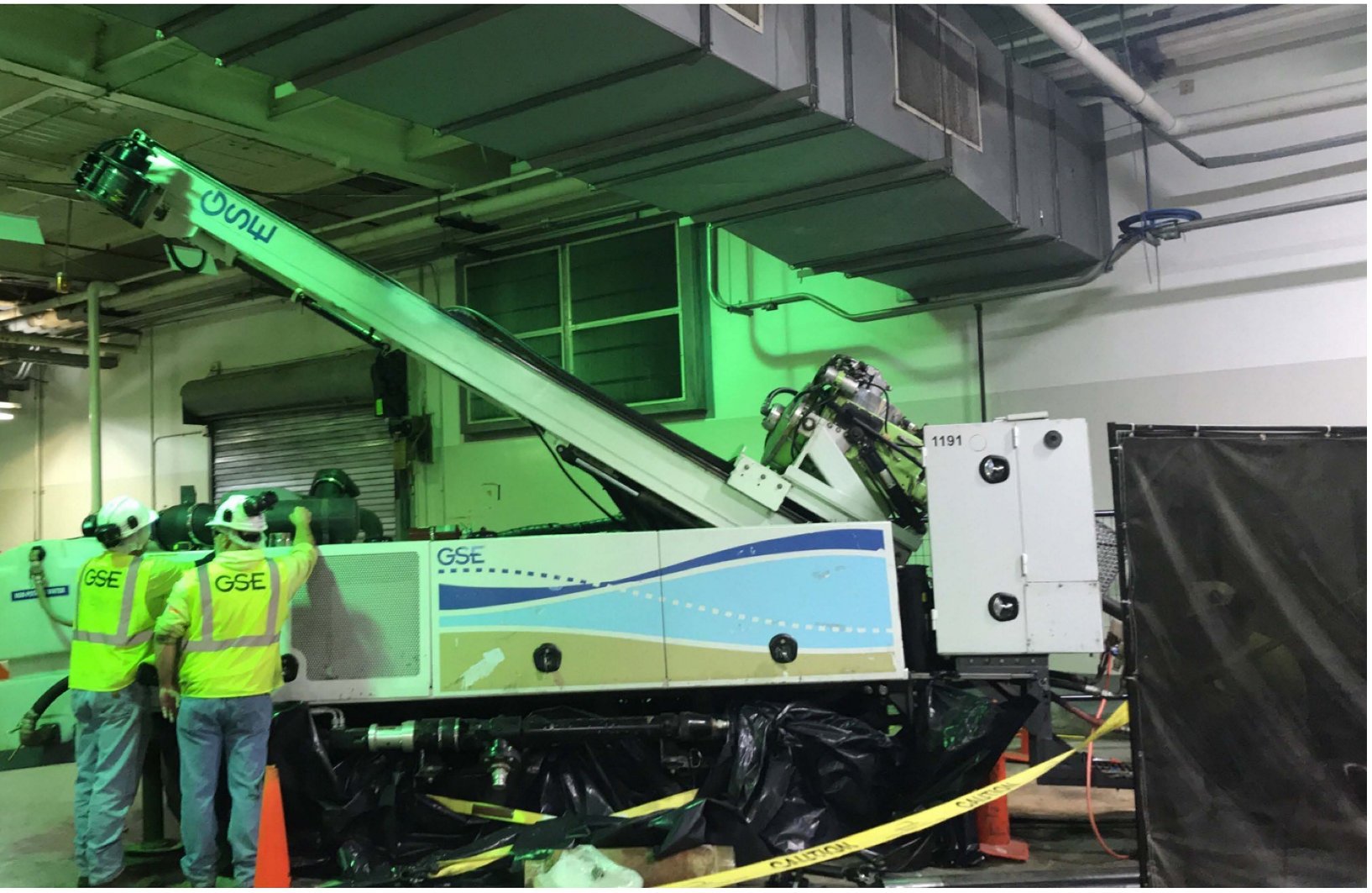
20:20 The end portion of exhaust pipe furthest away from drill rig is connected where the exhaust pipe meets a T joint and vertically climbs to discharge to exhaust fan in ceiling.

20:30 With drill rig completely off, NO2 multimeter is malfunctioning. The VOC readings are jumping between 1.2ppm and 122ppm, and alarms for NO are going off as well.

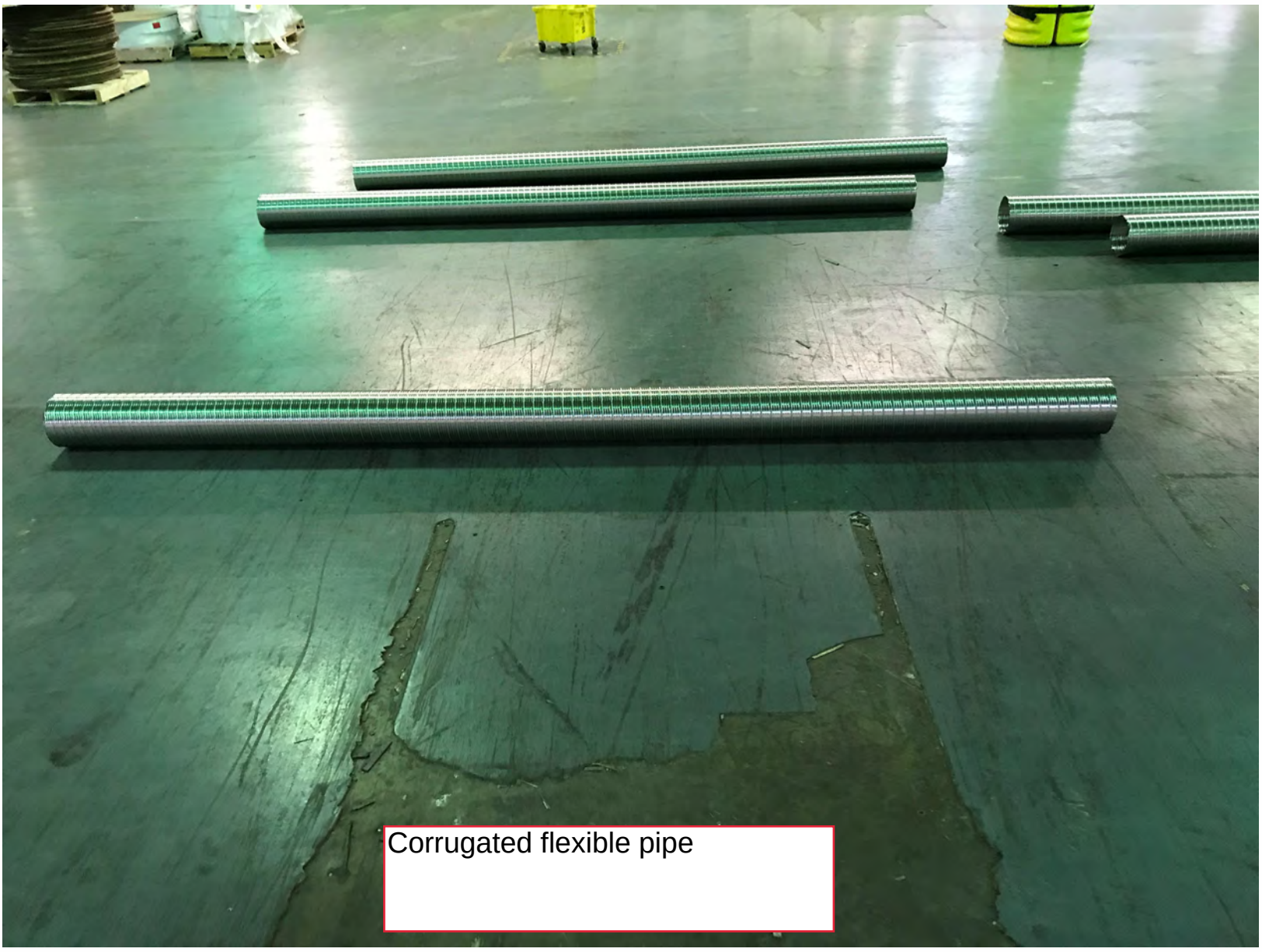
21:00 All exhaust piping is installed. The drill rig is fired up to idle speed and all connections are tested for temperature, Oxygen, NO, NO2, H2S, CO, LEL, and VOCs. The connections between the flexible corrugated pipe pieces seem to be leaking slightly as opposed to the connections between the straight pipe pieces. However, all levels are still below action levels. One segment of pipe which connects a piece of flexible pipe to straight pipe seemed to be leaking more than others, so it was re-clamped & re-taped. The drill rig was fired up to a higher RPM and all parameters were retested at every connection. The drill rig was fired up to an even higher RPM - slight odor and small amount of smoke at the second connection of pipe nearest the drill rig was witnessed - Ramboll & GSE assured it was likely just off-gas. This specific connection was re-clamped and re-taped and all parameters measured below action levels.

21:30 Drill rig to be positioned and aligned for trench HF-12. Air monitoring will continue while the drill rig is being repositioned. It is unlikely that any drilling would begin in the final hour of the shift, however, a licensed NJ driller with Summit was on site this shift in case drilling was ready to start.

21:40 I left the site, Ramboll & drillers still on-site when I left.

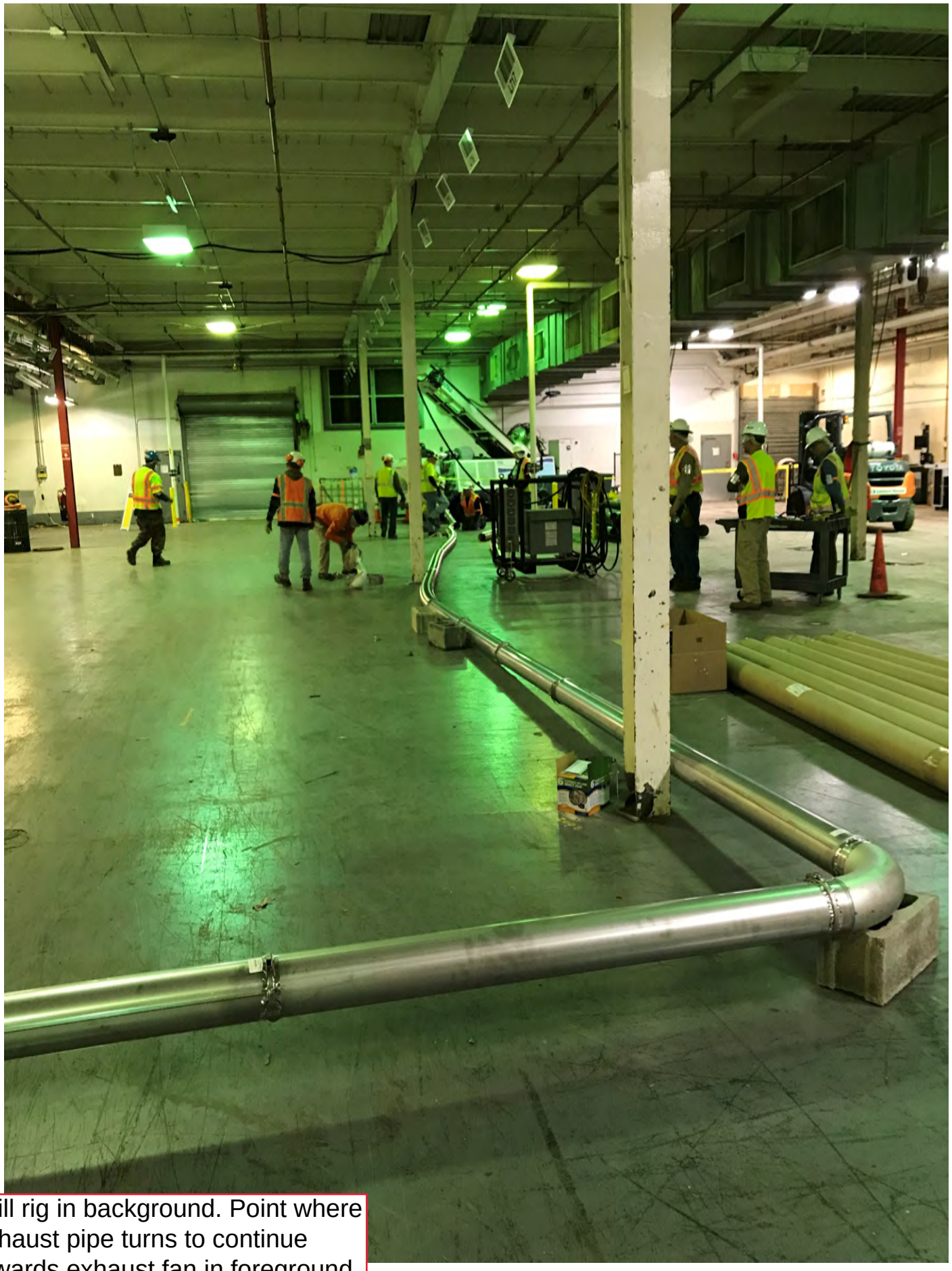


Attaching scrubber to drill rig 11/22/2019



Corrugated flexible pipe

Connection between two pieces of straight, smooth 6" exhaust pipe



Drill rig in background. Point where exhaust pipe turns to continue towards exhaust fan in foreground.

T joint of exhaust pipe leading up to exhaust fan in ceiling.

Exhaust pipe leading up to exhaust fan in ceiling.

Close up of exhaust pipe leading up to exhaust fan in ceiling.

Air monitoring of connections between segments of exhaust pipe.